

Fig. 1

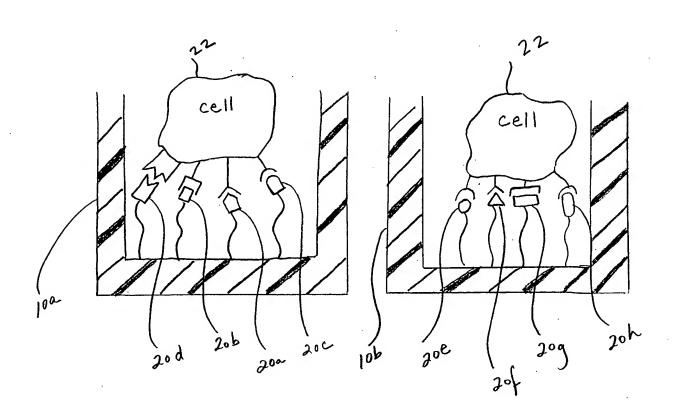


Fig. 2

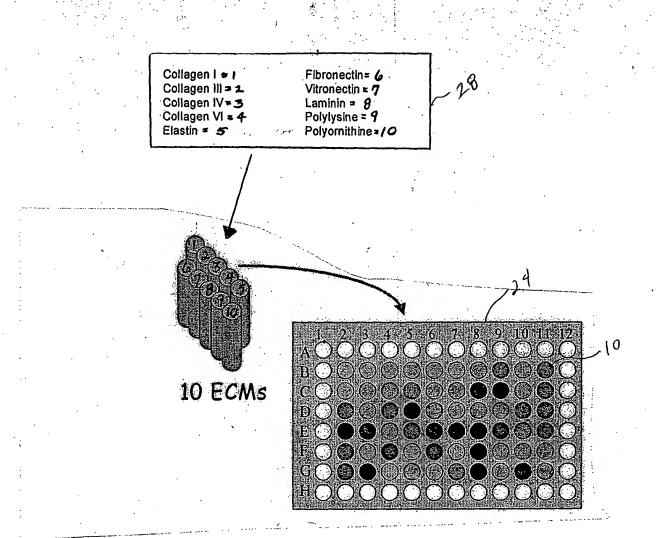


Fig. 3

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Collagen I/Fibronectin = 1 Collagen III/Vitronectin = 2 Collagen IV/Laminin = 3 Collagen VI/Polylysine = 4 Elastin/Polyornithine = 5 Fibroblast Growth Factor-7/Neuropeptide Y = 6
Growth Hormone/Interleukin-3 = 7
Prolactin/Hepatocyte Growth Factor = 8
Interleukin-18/Neurturin = 9
Cholesterol/Midkine = 10

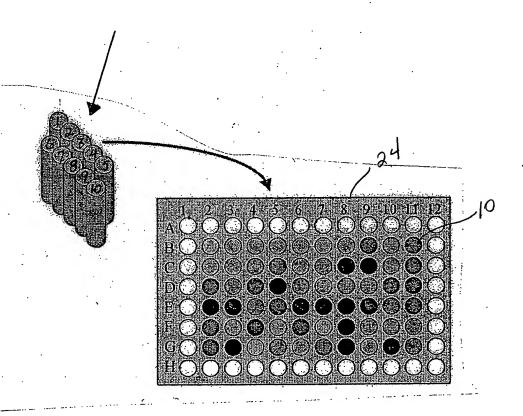
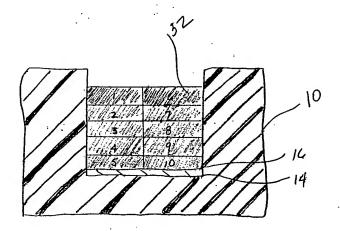


Fig. 4

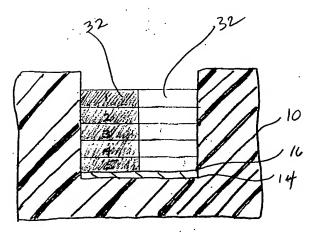
Fig. 5

A



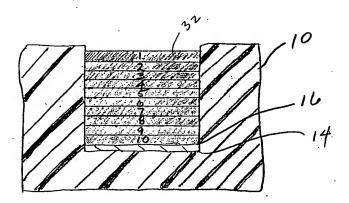
Case 1: All 10 factors are present Overall factor concentration = [10/10] = [1] [1] factor/well

B.



Case 2: 5 out of 10 factors are present overall factor concentration=[5/10]=[0.5] [0.5] Sactor/well Fig 6

A.

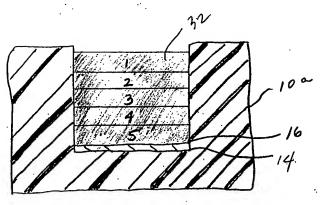


Case 1: All 10 factors are present

Overall factor concentration = [10/10] · [1]

[1] factor/well

B,



case 2: 5 out of 10 factors are present overall factor concentration = [1] [i] factor/well Title: HIGH THROUGHPUT METHOD TO IDENTIFY LIGANDS FOR CELL ATTACHMENT Inventors: A. Liebmann-Vinson; J. Rowley; C. Bodily, P. Haaland and M. Heidaran Page 7 of 17

n Type	,A:Fibronectin (ul)	B:Collagen I (ul)	C:Vitronectin (µl)	D-Collegen VI (ul)	E.Collagen III (µl)	F:Laminin (µI)	G-Collagen Iv (µl)	H:Elastin (µl)	J:Poly-L-Lysine (µl)	K.Poty-L-Ontithine (µI)
1 ContEdge			25		25					
2 CentEdge	25							25		
3 CentEdge				25				25	50	
4 Venex						<u> </u>			30	
5 CentEdge				25					 	2
6 CentEdge	. 25	25							25	
7 CentEdge		 	25		25			25		ļ
8 CentEdge			<u> </u>					23		
9 Verlex		 	50			25		ļ	 	ļ
10 CentEdge	25		5	5	5		5	5	5	
11 Center	5	5	1				50		 	
12 Vertex ::							25		 	 -
13 CentEdge	25 25	 		25					 	
14 CentEdge	25			23					 	
15 CenlEdge		25				25			 	
16 CentEdge			 		25				 	
17 CentEdge		<u> </u>	5	. 5			5	5	5	
18 Center W								5		
19 Center	5	<u>' </u>	·	25		25			 	·
20 CentEdge		<u> </u>	 	23	25		25		 	
21 CentEdge		25						25		
22 CentEdge 23 CentEdge	25		}		25				 	
24 CentEdge			25	25						
25 Vertex		50								
26 Vertex	50		 							
27 CentEdge		}	 	25			25			
28 Vertex		 	 		50					
29 CentEdge			25						25	
30 CentEdge		25								
31 Verlex		<u>-</u> _	 			50			 	
32 Vertex 6			 		50				· · · · · ·	
33 CentEdge			 	25					25	
34 CentEdge		25	·		25					
35 CenlEdge		 		25				25		
38 CentEdge		 	j		25				25	
37 CéntEdge		1	25					25		
36 CentEdge			25						T	2
39 Venex:								50		
40 CentEdge		1		25	25					
41 Center		5	5	5	5	5	5	5	. 5	
42 Venex		1								5
43 CentEdge	25	j							25	
44 CentEdge	25		25			l				
45 CentEdge		25					25		<u> </u>	L
46 CentEdge		25				L				<u> </u>
47 CentEdge		25				 			25	
43 Vertex 🐮				50						
49 CentEdge		l	25		L	25				ļ
50 CentEdge			26		L	ļ	25		↓	<u> </u>
51 CentEdge			L		25	ļ	ļ		<u> </u>	2
52 CentEdge		25	it	25	I .	1	1		1	

Figure 7

.

3

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	1	2	3	4	5	6	7	8	9	10	11	12
Α												
В				Col VI / ELA	機器(核)理	C VI / PO	FN/CI	VN / PL	C III / ELA	M	FN/LAM	
С		MID:	逐步的基本	FN/CIV	FN/CVI	FN/PO	C1/LAM	C III / LAM	MID/	MID:	C.VI / LAM	
D		CIII/CIV		FN/CIII	VN / C VI	4	国机会	CVI/CIV		VN/PL	C I / PO	
E		William .			CI/CIII	C III / P.L	C III / PL	VN / ELA	VN / PO	自然を禁じ	C VI / C III	***************************************
F		MID	1900	FN/PL	FN/VN	CI/CIV	CI/VN	CI/PL	S. 1985	VN / LAM	VN/CIV	
G		C III / PO-										
Н			Ĭ									
	1	10 A.V	Midpoint -	contains all 1	0 adhesion	ligands						
	1	4.	Single ad	nesion ligand	containing	wells						

Figure 8

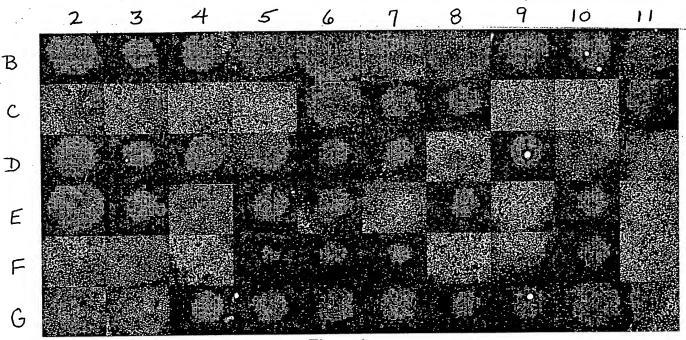


Figure 9

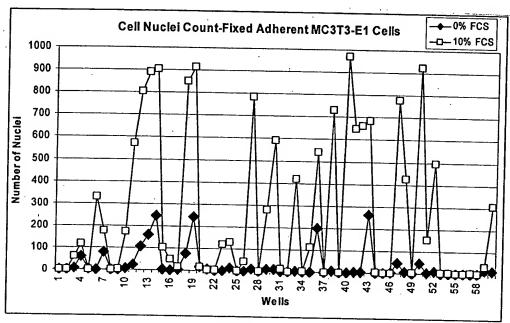


Figure 10

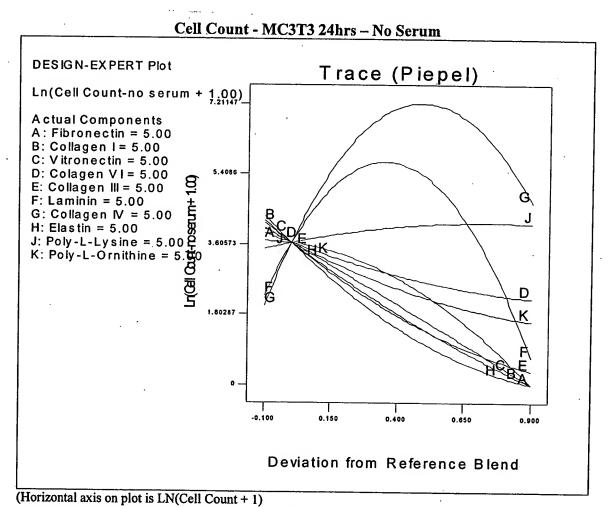


Figure 11

Cell Count - MC3T3 24hrs - 10% Serum

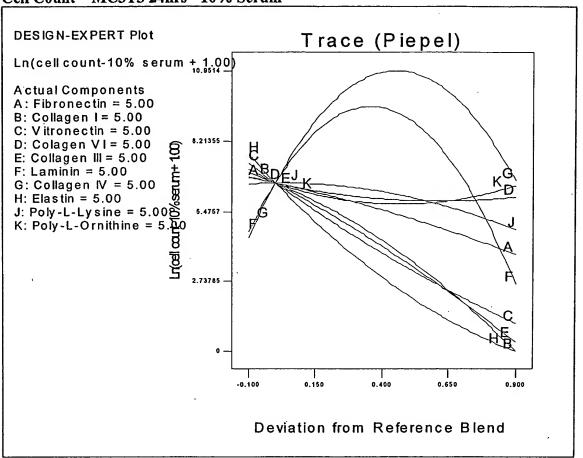


Figure 12

Title: HIGH THROUGHPUT METHOD TO IDENTIFY LIGANDS FOR CELL ATTACHMENT Inventors: A. Liebmann-Vinson; J. Rowley; C. Bodily, P. Haaland and M. Heidaran Page 13 of 17

Run	F01	F02	F03	F04	F05	F06	F07	F08
1.	· -1	-1 ,	-1	1.,	-1	-1	-1	1
2	-1	-1	1	1	-1	-1	-1	-1
3	1	1	. 1	-1	-1	-1	-1	-1
4	1	1 .	1	-1	1	1 .	1	1
5	1	-1	1	1	1	-1	1,	-1
8	-1	-1	-1	1	1	-1	-1	-1 .
7	. 1	-1	. 1	-1	-1	-1	1	-1
8	1	· -1	1	-1	1	-1	-1	1
9	-1	1	1	1	1	1	-1	-1
10	1	1 1	1	1	-1	-1	-1	-1
11	-1	-1	-1	-1	-1	1	1	-1
12	1	-1	-1	-1	-1	-1	1	1
13	1	1	- 1	-1	-1	1	1	1
14	-1	-1	-1	1	1	-1	1	1
15	1	-1	-1	. 1	1	1	1	1
16	-1	1.	-1	1 .	-1	1	-1	1
17	-1	-1	1	-1	-1	-1	1	1
18	1	-1	-1	-1	1	1	-1	1
19	1	1	-1	-1	-1	-1	1	-1
20	1	-1	-1	1	-1	1	1	1
21	-1	-1	-1	-1	1	-1	-1	-1 .
. 22	1	-1	1	-1	1	-1	-1	-1
23	-1	-1	1	-1	-1	1	1	1
24	-1	1	-1	-1	1	1	1	-1
25	-1	1	-1	1	-1 .	-1	1	-1
26	1	1	1	. 1	1	1	1	1
27	-1	1	1	1	· -1	1	1.	1
28 29	-1 1	1	-1 -1	-1	-1 1	1	1	-1
30	1	-1	-1 -1	.1 1	-1	-1	1	-1
31	-1	-; 1	-! 1	-1	1	-1 -1	1	1 -1
32	1	•	-1	1	-1	1	-1	-1 -1
33	. 1	1 '	-1	-1	-1 -1	- 4	-1	1
34	` i	1	1	1 .	-1 -1	-1	- 1	.1
35	-1	-4	-1	1	-1	-1	i	-1
36	1	-1	-1	-1	-1	i	-i	-i
37	-i	- 1	-i -1	-i	1	-i	. 1	1
38	i	i	i	1	·i	-i	-1	-i
39	i	i	-i	-i	i	<u>i</u>	1	i
40	-1	i	i	· i	-i	મં	-1	1
41	1	-1	1	1	-1	i	-1	1
42	1	1	1	1	+ 1	-1	1	-1
43	-1	-1	1	-1	1.	1	1	-1
44	-1	1	1	<u>i</u>	1	-1	-1	i
45	-1	1.	1	-1	i	1	-1	1.1
46	1	. 1	-1	<u>i</u>	1	-1	i	-1
47	1	-1	-1	-1	1	-1	-1	1
48	-1	1	-1		1 .		-1	
49 .	-1	-1	1	1. 1 1	1	· 1 1 1	-1 1 1	1 -1 -1
50	-1	-1 -1	1	1	1 -1	1	1	-1
51	-1	-1	1	i	1	-1	1	1
52			-1		-1		-1	
53	1 -1	.1 -1	-1 -1	1 -1	-1 4	. 1 1 1	-1 -1	-1 ⁻
54	-1 -1	-1 4	-1 -1	-1 -1	1 -1	4	-1 4	-1 4
54 55	-1 1	1 -1	-1 -1	-1 1	•1 4	1 .	-1	-1
56	-1	•1 · 1	-1 -1	-1 -1	1 1	-1	-1	1
50 57	-1 -1	1 -1	-1 1	-1 -1	-1	-1 1	-1	1
57 58	-1 -1	-1 -1	4	-1 -4	-1 4	-1	-1	1
58 59	-1 1 1	1 -1 -1	1	-1 -1	-1 -1 ·	-1 1	-1 -1 -1	1 -1
60	1	-1 -1	1	-1 1	1	1	-1 -1	-1 -1
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.3								
F09	F10	F11	F12	F13	F14	F15	F16	F17
1	-1	1	1	-1	1	-1	1	-1
· 1	-1	-1	-1	1	. 1	-1 1	1	1 -1
1	1	-1	-1	-1	-1 1	1	-1 -1	-1 -1
-1	-1	1	1	1 -1	-1	1	-; 1	1
1	-1 1	-1 -1 .		-1 -1	1	i	-i	i
-1 -1	1	-1 -1	1.	1	i	-1	1	-1
-1	-1	1	1	1	-1	1	1	1
-1	-1	-1	1	1	-1	-1	-1	-1
-1	1	1 .	-1	-1	-1	· -1	1	-1
-1	-1	-1	1	-1	-1	-1	1	1
-1	-1	-1	-1	1	-1	-1	-1	1
1	1	-1	-1	-1	-1	-1 -1	1	-1
-1	1	-1	1 -1	-1 -1	-1 1	-1 1	-1	-1
-1	-1 -1	-1 1	-1 -1	1	1	i	-1	i
-1 -1	-1 1	1	-1 -1	i	-i	i	-1	-1
1 .	-1	i	-i	1	-1	-1	-1	1 '
-1	- 1	1	1	-1	1	1	-1	1
-1	1	-1	1 .	-1	-1	1	-1	-1
1	1	-1	1	1	-1	1	-1	1
1	-1	-1	1	-1	1	1	1	-1 1
-1	1	1	1 1	1 -1	-1 -1	-1 1	1	1
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-1	-1	1	-1	-1	1	-1 -1	1	1
1	-1	-1 -1	1 -1	1 -1	1	-1 -1	-1	-i
1	-1 1 .	-; 1	-1 -1	-1 -1	-1	-1	-1	1
1	1	i		, i	-1	1	-1	-1
-i	1	1	-1	1	1	-1	. 1	-1
1	-1	. 1	-1	1	-1	-1	1	-1
-1	-1	1	1	-1	-1	-1	-1	1
1	-1	-1	-1	-1	-1	1	·1 1	-1 -1
-1 .	-1	1	-1	· -1	1	1	-1	-; 1
-1	-1 1	-1 -1	1 -1	-1 1	-1 1	1	-1	i
-1 1	-1	-1 1	-1 -1	-i	i	-1	-1	1
1	1	4	1	-1	-1	-1	-1	-1
-1	i	-1	-1	-1	1	-1	-1	1
i	-1	-1	-1	1	-1	-1	1	-1
-1	1	1	1	-1	1	-1	1	-1
-1	1	-1	-1	1	-1	-1	1	1
-1 1 1	-1 -1 1	-1 1 -1	1	1 -1 1	1 -1 1	-1 1 1	-1 -1 1 1	-1 -1
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1	i	-1 -1	. 1	-i	1	-1	-1	1
1 -1	-i	-1	1	1	-1	4	1	-1
1	1	1	-1	1	-1 1 -1	1 .	1	-1
4	4	4	1	1	-1	-1	-1	-1

F18	F19	F20	F21	F22	F23	F24	F25	F28
-1	· -1	. <u>1</u>	-1	-1	1	-1	1	1
-1	1	-1	1	-1	-1	-1	1	-1
-1	1	1	-1	1	1	-1	1	-1
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-1	-1	· '-1	-1	1	-1	-1	-1	4
-1	1	-1	1	1	1	-1	1 1	4
-1	-1	1	-1	-1	-1	1	1	-1 :
-1	1	-1	-1	1	-1	-1	1	1 .
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1	1	i	-i	-1	-i	-1	-1	1
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1	1 -1	1	-1	1	-1 -1	-1 -1	1	-1 -1
1	1	-1	-1	i	1	1	i	-1 :: 1 :: 1 :: 1 :: 1 :: 1 :: 1 :: 1 :
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-1	1	1	1 .	-1	1 '	1	1	1
-1	-1	-1	1	1	-1	1	1	-1
-1	-1	-1	1	-1 -1	-1 -1	-1 1	1	1 .
1	1 1	1 -1	1	-1	1	-1	-1	1
1	i	1	-1	-1	i	1	1	1 1 1 1 -1
i	i	-1	1	1	1	1	-1	-1
1	i	-1	-1	-1	-1	1	-1	-1
-1	1	1 .	1	-1	1	-1	1	-1
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1 -1	-1 -1	1 -1	1 -1	1.	-1 1	1	-1 -1	-1
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-1	1	-1	1	-1	-1	1	-1	-1
-1 1 -1 1 -1 -1 -1 -1	1 1 -1	-1 -1 -1 -1 -1 -1 -1 -1	1 1 1 1 1 1 1 1 1 1	4 4 4 1 1 1 4	-1 1 -1 -1 -1 1 -1	-1 1 -1 1 1 -1	-1 -1 1 -1 -1 -1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-1	-1	1 .	-1	-1	· -1	1	1	-1 :
1	-1	-1	-1	-1	-1	1	1	-1 -1 -1
1 2	1	1	1	1	-1 .4	•1 4	-1 -1	. 1
•1 4	-1 :4	1	. 1 . 4	-4	-1	4	-1	-1
-1	1 1 1 1	1	-, 1	1	1	-1	-1	-1
-1	1	i	-1.	-1	-i	-1	-j	-1
• •	•	•	•	•	•	•	•	•

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F27	F28	F29	F30	•
1	-1	1		•
-1	1	-1	-1 1	
1	-1	-1	-1 .	
1	-1	-1	-1	
1	1	• 1	- 1 •	
-1	-1	1	-1	
-1	1	1	1	•
-1	-1	-1	-1	
-1	1	-1	1	
· -1	1	-1	-1	
-1	1	ı-1	-1	
-1	-1	1	-1 · ·	
1	-1	.1	1	
1	-1	-1	1.	
1	1	-1	1	
1	-1	1	1	
-1	1	-1	· 1	
-1 -1	1	-1	-1	
-1	1	1	1	
-1	1	1	1	
1	1	-1	1	
1	1	-1	1	
1	-1	-1	-1	
-1	-1	-1	-1	•
-1 1	-1	-1	1	
-1	1 1	1 -1	1 -1	:
1	-1	-1	-1 -1	
-1	-1	-1	1	
1	1	-1 -1	-i	
-1	i	1	1 .	
-1	-1	-1	-1	
-1	-1	-1	1	
1	1	-1	1	
1	1	-1	-1 ·	
1	1	1	-1 ·	
-1	-1	1	1	
1	-1	1	-1	
-1	1 .	1	-1	
1	1	-1	-1	
-1 '	-1	1	1	
1	-1	-1	-1	
1	1	1	1	
-1 -1	1 1	1	-1	
-1 1	-	-1	-1	
1	-1 1	-1. 4	1 -1	•
i	4	1	-1 -1	
1	-1	4	-1	
		i		
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4	•			
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-1	-1	i 1	1	
		•	•	

BATSBA COLDEN			
mrm ractor	racmi	кесеріог	Ciassification
F01	Sonic nedgenog amino-terminal peptide (Snn-	PATCHED (PTCH-1) / PTCH-2 / SMO (emochange)	GOO! conductions (7) and describes and a sec. [
F02	BMP-cocktail		BMPR-Ser/Thr Kinasa
F03	Cholesterol (water soluble formulation)		channels & membrane transporters
F04	Leptin (human, recombinant)		Cytokine Rc
F05	Prolactin (human, recombinant)	Prolactin Receptor	Cytokine Rc
F06	Ciliary neurotrophic factor (CNTF) (human, recombinant)	CNTER-sinha + co130 + LIE Rc	Cycline Br
F07	Amphiregulin (long form, recombinant)	EGFR	EGFR-tyrosine kinase
		-	
F08	recombinant)	l	FGFR-tyrosine kinase
F09	Fibroblast Growth Factor-7 (FGF-7) = KGF	FGF Rc Family	FGFR-tyrosine kinase
F10	eptide (VPAC1R / VPAC2R	GPCR
F11	Gastrin/CCK8-cocktail	CCK-B/Gastrin Rc	GPCR
F12	Neuropeptide Y	Neuropeptide Y Rc Family (Y1-Y6)	GPCR
F13	Thrombin/TXA2-cocktail	thromboxane A2 Receptor	GPCR
	C natriuretic peptide) (human, porcine, rat:		
114	mag 32-53)(CNP)	Guanylate Cyclase B (GC-B) Rc (ANPR-A & ANPR-B)	Guanylyl Cyclase
F15	Interleukin-3 (IL-3) (human, recombinant)	eta (aka GMCSFRc) / IL3Rc-alpha	IL-Cytokine Rc
F16	Interleukin-18 (IL-18) (human, recombinant)	IL18Rc	IL-Cytokine Rc
F17	Midkine (MK) (human, recombinant)		Miscellaneous
F18	Neurturin (NTN)		Miscellaneous
F19	Dibutyryl cyclic AMP	cAMP Receptor Protein Kinase (PKA)	Ser/Thr Kinase
F20	<u>ë</u>		Small Molecule
F21	Cycloheximide (actidione)	Not receptor mediated	Small Molecule
F22	Platelet-derived endothelial cell growth factor (PD-ECGF) (aka thymidine phosphorylase)	Not Receptor mediated	Small Molecule
F23	Laminin	the Bote Integrin	
	Transforming Growth Factor beta3 (human		surface-mainx receptor
F24	recombinant)		TGFBR-Ser/Thr Kinase
		strogen Receptor-beta	
F25	Estradiol, beta (water soluble formulation)		Transcription Factor
F26	Hydrocortisone		Transcription Factor
F27	nuclear factor of activated T cells (NFAT) proteins (NFAT1-NFAT5)	ated	Transmission Early
66	Hepatocyte Growth Factor (HGF, scatter		
F28	ractor)		tyrosine kinase
128	Growth Hormone	GH Receptor	tyrosine kinase
F30	Brain-denved Neurotrophic Factor (BDNF) (human, recombinant)	Тив	Vrosine kinase